ABSTRACT

The Development of Cottage Cheese from Goat Milk

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In this report, established methods of Cottage Cheesemaking are modified in an attempt to produce a Cottage cheese, first from cow milk, and then finally from goat milk.

Both long and short-set methods are investigated. In an effort to produce Cottage cheese of good quality, manipulation of both the level of starter, and the starter organisms themselves is carried out. The organisms used are Streptococcus lactis, Streptococcus cremoris and Leuconostoc dextranicum.

Chemical analyses and sensory evaluation are carried out. Sensory evaluation data is analysed using the Chi-square distribution method.

Results indicate that methods using 1% starter and an incubation temperature of 32°C produce the best Cottage cheese from both cow and goat milk, however all three organisms named must be added to the goat milk starter.

Proximate analyses also reveal that low total solids of the goat milk contribute to a less than firm texture.
Statistical analyses reveal that while the colour of the products are found to be acceptable, the taste and aroma are not. The data also reveals that further work is necessary to bring the cheeses obtained by the methods used, on par with a commercially available product.

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